

## ITGA5 Protein, Human, Recombinant (His)

### General Information

Synonyms:	FNRA; Integrin $\alpha$ -5; Integrin Alpha-F; Fibronectin Receptor Subunit $\alpha$ ; Integrin Alpha-5; CD49 Antigen-Like Family Member E; VLA-5; Integrin $\alpha$ -F; CD49e; ITGA5; Fibronectin Receptor Subunit Alpha
Protein Construction:	Phe42-Tyr995
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08648
Molecular Weight:	130 KDa (reducing condition)
AA Sequence:	Phe42-Tyr995

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Integrin  $\alpha$ -5 belongs to the Integrin  $\alpha$  chain family and contains 7 FG-GAP repeats. Integrin  $\alpha$ -5 joins with Integrin- $\beta$ 1 to form a fibronectin and laminin receptor which recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma

lesions. It is expressed on fibroblasts, endothelial cells, peripheral T cells and platelets. Integrin  $\alpha$ -5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains. In addition to adhesion, ITGA5 participates in cell-surface mediated signalling.

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